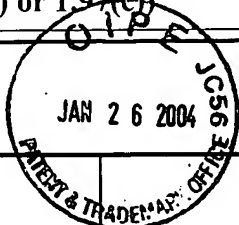


TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
UCT-0037

In Re Application: Can Erkey et al.



Serial No.

10/641,705

Filing Date

08/15/2003

Examiner

Group Art Unit

**CATALYSIS BY WATER-SOLUBLE ORGANOMETALLIC COMPLEXES IN
FLUID MICROEMULSIONS****Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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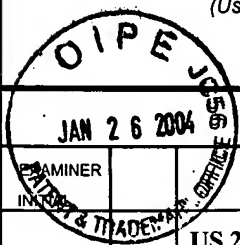
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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. UCT-0037	
In Re Application Of: Can Erkey et al.				
Serial No. 10/641,705	Filing Date 08/15/2003	Examiner	Group Art Unit	
Title: CATALYSIS BY WATER-SOLUBLE ORGANOMETALLIC COMPLEXES IN WATER-IN-DENSIFIED FLUID MICROEMULSIONS				
<div style="text-align: center;"> <p>Address to:</p> <p>Commissioner for Patents</p> <p>P.O. Box 1450</p> <p>Alexandria, VA 22313-1450</p> </div> <div style="text-align: center; margin-top: 10px;"> <p>37 CFR 1.97(b)</p> </div> <p>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</p> <div style="text-align: center; margin-top: 20px;"> <p>37 CFR 1.97(c)</p> </div> <p>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:</p> <div style="margin-left: 40px; margin-top: 10px;"> <p><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</p> <div style="text-align: center; margin-top: 10px;"> <p>OR</p> </div> <p><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</p> </div>				

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U.S. PATENT DOCUMENTS

EXAMINER INITIALS & TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	US 2002/0070167	6/13/2002	Krasutsky et al.			
	4,933,404	6/12/1990	Beckman et al.			
	4,996,366	2/26/1991	Tinucci et al.			
	5,158,704	10/27/1992	Fulton et al.			
	5,266,205	11/30/1993	Fulton et al.			
	5,238,671	8/24/1993	Matson et al.			
	5,770,172	6/23/1998	Linehan et al.			
	5,814,678	8/29/1998	Randolph			
	6,299,652	10/9/2001	Jureller et al.			
	6,452,055	9/17/2002	Koch et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	WO9961401; A1; 19991202 (Abstract Only)
	Smith, R. T. et al., "Rhodium Complexes of the Water-Soluble Phosphine Ph ₂ PCH ₂ CH ₂ NMe ₃ ⁺ . Their Complexes with Hydride, Olefin, and Carbon Monoxide Ligands. Their Use as Olefin Hydrogenation and Hydroformylation Catalysts in Aqueous Solution and in Aqueous/Organic Solven Two-Phase Systems and Adsorbed on A Cation-Exchange Resin", Organometallics, 1983, 2, 1138-1144,

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Can Erkey et al.

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U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Hou, M-J. et al., "Effects of the Molecular Structure of the Interface and Continuous Phase on Solubilization of Water in Water/Oil Microemulsions", <i>Langmuir</i> 1987, 3, 1086-1096.
			Arhancet, J. P. et al., "Hydroformulation by supported aqueous-phase catalysis: a new class of heterogeneous catalysts", <i>Nature</i> , 339 (1989), 454-455.

DATE CONSIDERED

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. UCT-0037		SERIAL NO. 10/641,705	
				Can Erkey et al.			
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	DESCRIPTION
			Clarke, M. J. et al., "Water in Supercritical Carbon Dioxide Microemulsions: Spectroscopic Investigation of a New Environment for Aqueous Inorganic Chemistry", J. Am. Chem. Soc. 1997, 119, 6399-6406.
			Deshpande, R. M. et al., "Effect of pH on rate and selectivity behavior in biphasic hydroformulation of 1-octene", Journal of Molecular Catalysis A: Chemical 126 (1997) 133-140.

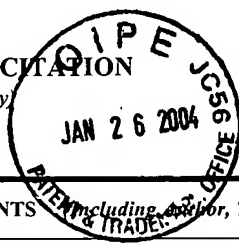
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		Applicant(s) Can Erkey et al.	
		Filing Date 08/15/2003	Group Art Unit
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Abstracts, Title, Date, Pertinent Pages, Etc.)</i>		
	Heitz, M. P. et al., "Water Core within Perfluoropolyether-Based Microemulsions Formed in Supercritical Carbon Dioxide", J. Phys. Chem B 1997, 101, 6707-6714.		
	Cornils, B. et al., "Aqueous-Phase Organometallic Catalysis; Concepts and Applications", 1998, Weinheim, Germany: Wiley-VCH, 59-143.		
	Horvath, I. T., "Fluorous Biphasic Chemistry", Acc. Chem. Res. 1998, 31, 10, 641-650.		
	Niemeyer, E. D., "The pH within PFPE Reverse Micelles Formed in Supercritical CO ₂ ", J. Phys. Chem. B 1998, 102, 1474-1478.		
	Cornils, B., "Bulk and Fine Chemicals Via Aqueous Biphasic Catalysis", Journal of Molecular Catalysis A: Chemical 143 (1999) 1-10.		
	Holmes, J. D. "Synthesis of Cadmium Sulfide Q Particles in Water-in-CO ₂ Microemulsions", Langmuir 1999, 15, 6613-6615.		
	Holmes, J. D. "Buffering the Aqueous Phase pH in Water-in-CO ₂ Microemulsions", J. Phys. Chem. B 1999, 103, 5703-5711.		
	Jacobson, G. B., "Organic Synthesis in Water/Carbon Dioxide Microemulsions", J. Org. Chem. 1999, 64, 1201-1206.		
	Jacobson, G. B., "Enhanced Catalyst Reactivity and Separations Using Water/Carbon Dioxide Emulsions", J. Am. Chem. Soc. 1999, 121, 11902-11903.		
	Kane, M. A., "Performance of Cholesterol Oxidase Sequestered within Reverse Micelles Formed in Supercritical Carbon Dioxide", Langmuir 2000, 16, 4901-4905.		
	Liu, Z. et al., "Water in Carbon Dioxide Microemulsions with Fluorinated Analogues of AOT", Langmuir 2001, 17, 274-277.		
	Dong, X. et al., "Behavior and Micelle Size of an Aqueous Microdispersion in Supercritical CO ₂ with a Novel Surfactant", Ind. Eng. Chem. Res. 2002, 41, 1038-1042.		
EXAMINER		DATE CONSIDERED	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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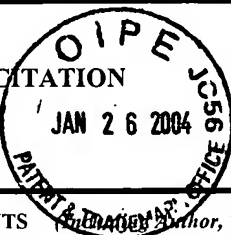
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Filing Date 08/15/2003	Group Art Unit

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	X. Dong et al., "Synthesis of CuS Nanoparticles in Water-in-Carbon Dioxide Microemulsions", Ind. Eng. Chem. Res. 2002, 41, 4489-4493.
	Can Erkey et al., "Hydroformylation of ethylene in supercritical carbon dioxide using Ru(SO) ₂ as a catalyst precursor", Catalysis Communications 3 (2002) 213-219.
	Shaker Haji et al., "Investigation of rhodium catalyzed hydroformylation of ethylene in supercritical carbon dioxide by in situ FTIR spectroscopy", Tetrahedron, Volume 58 (2002) 3929-3941.
	Haumann, M. et al., "Hydroformylation of 1-dodecene using Rh-TPPTS in a microemulsion", Applied Catalysis A: General 225 (2002) 239-249.
	Ohde, H. et al., "Water-in-CO ₂ Microemulsions as Nanoreactors for Synthesizing CdS and ZnS Nanoparticles in Supercritical CO ₂ ", Nano Letters 2002, Volume 2, Number 7, pages 721-724.
	Ohde, H. et al., "Hydrogenation of Olefins in Supercritical CO ₂ , Catalyzed by Palladium Nanoparticles in a Water-in-CO ₂ Microemulsion", J. Am. Chem. Soc., 2002, 124, 4540-4541.
	http://www.cmt.anl.gov/toroid-cavity/poster1/aip-04index.html ; printed 8/5/2002; 18 pages.
	Keith P. Johnston et al., "Reactions and Synthesis in Microemulsions and Emulsions in Carbon Dioxide", Surfactant Synthesis Series (2001), 100 (Reactions and Synthesis in Surfactant Systems), 349-358.
	David E. Fremgen et al., "Microemulsions of water in superficial carbon dioxide: an in-situ NMR investigation of micelle formation and structure" Journal of Supercritical Fluids 19 (2001) 287-298.
	Gunilla B. Jacobson et al., "Biphasic Catalysis in Water/Carbon Dioxide Micellar Systems", (Abstract Only), American Chemical Society, 217th ACS National Meeting 0-8412-3672-0, March 21-25, 1999.
	J. D. Holmes et al., "Bioconversions in a Water-in-CO ₂ Microemulsion", Langmuir, Vol. 14, No. 22, 1998, 6371-6376.
	Yutaka Ikushima, "Supercritical fluids: an interesting medium for chemical and biochemical processes", Advances in Colloid and Interface Science 71-72 (1997) 259-280.
EXAMINER	DATE CONSIDERED

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Can Erkey et al.

Filing Date

08/15/2003

Group Art Unit

*EXAMINER
INITIAL

OTHER DOCUMENTS

(Indicate Author, Title, Date, Pertinent Pages, Etc.)

Marina A. Hauck et al., "Hemoproteins-Catalyzed Oxidations of Organosulfur Compounds in Reverse Micelles, Microemulsions, and Emulsions in Supercritical Fluids", (Abstract Only), American Chemical Society, 222nd ACS National Meeting 0-8412-3803-0, August 26-30, 2001.

Dongil Lee et al., "Electrochemistry In Water-In-Supercritical-CO₂, Microemulsions", (Abstract Only) American Chemical Society, 222nd ACS National Meeting 0-8412-3803-0, August 26-30, 2001.

Robert H. Grubbs et al., "Catalytic Reduction of Olefins with a Polymer-Supported Rhodium(I) Catalyst" Journal of the American Chemical Society, 93:12, June 16, 1971, pages 3062-3063.

M. Capka et al., "Hydrogenation, Hydrosilylation and Hydroformylation of Olefins Catalysed by Polymer-Supported Rhodium Complexes", Tetrahedron Letters No. 50, pp 4787-4790, 1971.

Yutaka Ikushima, "Supercritical fluids as media for chemical and biochemical reactions", Recent Research Developments in Chemical Engineering (1997), 1, 49-57.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.